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PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	<b>Application Number</b>	09/960,412	
	<b>Filing Date</b>	September 24, 2001	
	<b>First Named Inventor</b>	Noboru KAGEYAMA	
	<b>Group Art Unit</b>	2834	
	<b>Examiner Name</b>	Mark Osborne BUDD	
<b>Total Number of Pages in This Submission</b>	15	<b>Attorney Docket Number</b>	032213 . 015

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <input checked="" type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):  1) Marked-up Version of Amended and New Claims 2) Clean Copy of Amended and New Claims
<b>Remarks</b>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Brandon S. Boss, Reg. 46,567
Signature	
Date	November 22, 2002

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: <input type="text"/>			
Typed or printed name			
Signature		Date	

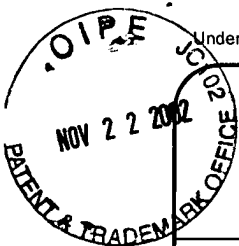
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PATENT TRADEMARK OFFICE



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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT \$336

Complete if Known

Application Number 09/960,412  
Filing Date September 24, 2001  
First Named Inventor Noboru KAGEYAMA  
Examiner Name Mark Osborne BUDD  
Group / Art Unit 2834  
Attorney Docket No 32213 . 015

## METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit  
Account  
Number

02-4300

Deposit  
Account  
Name

Smith, Gambrell & Russell, LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments  
☒ Charge any additional fee(s) during the pendency of this application  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)

(\$0)

### 2. EXTRA CLAIM FEES

Total Claims	29	34	=	0	X	Fee from below \$18.	=	0
Independent Claims	10	-6**	=	4	X	Fee from below \$84.	=	\$336.
Multiple Dependent					X		=	0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

\$ 336.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$0)

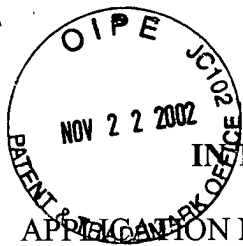
## SUBMITTED BY

Complete (if applicable)

Name (Print/Type) Brandon S. Boss Registration-No. Attorney/Agent 46,567 Telephone 202/263/4300  
Signature Date November 22, 2002

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# 7/C (ATE)  
App. No. 09/960,412  
Docket: 032213.015  
*Hawkins*  
*12/4/02*

IN THE UNITED STATES PATENT IN TRADEMARK OFFICE

APPLICATION NO.: 09/960,412

FILING DATE: 09/24/2001

FIRST NAMED INVENTOR: Noboru Kageyama

EXAMINER: Budd, Mark Osborne

ART UNIT: 2834



AMENDMENT AND RESPONSE TO FINAL OFFICE ACTION

Box AF  
Commissioner for Patents  
Washington, D.C. 20231

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A response to the final Office Action of August 22, 2002 is being timely filed by the due date. Applicants request amendment of the application as follows.

IN THE CLAIMS

Please amend claims 1, 5, 13, 17, and 20 as shown by the enclosed marked up version of the claims. Applicants have amended independent claims 1 and 13 to clarify that the electrodes consist of solder. Claims 5, 17, and 20 have been amended to address potential 112 issues.

Please add new claims 27-33 to the application as shown by the marked up version of the claims. These claims correspond to the allowable subject matter of claims 5, 7, 8, 17, 19 and 20 as indicated in the final Office Action.

A clean version of the amended and new claims is enclosed for the Examiner's review.

Applicants have enclosed the requisite fee relating to the 4 new independent claims.

11/25/2002 SSESHE1 00000017 09960412

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